

Real-Time PCR: Gene Expression & Genotyping

Seminars & Hands-On Course – *Learning by doing!*
11 – 12 July 2018 | USM Health Campus, Kelantan

Course Description

This 2-days workshop is designed to provide participants a combination of lectures and hands-on laboratory experiences on nucleic acids analysis using real-time PCR. The workshop will cover RNA extraction from cell culture, cDNA synthesis, reaction preparation for gene expression with real-time PCR follow by expression analysis using referred methods i.e. relative quantification, and reaction preparation for genotyping with real-time PCR. Through the integrated learning methods, utilizing hands-on training to reinforce lecture materials, participants will be able to apply information learned in the workshop into applications in their own research.

Speakers and Trainers

Dr. Noor Fatmawati Mokhtar
(iNFORMM, Cancer Cluster)

Associate Professor Dr.
Venugopal Balakrishnan
(iNFORMM, Cancer Cluster)

Ms. Tan Yan Yin
Application Scientist
(NeoScience, Malaysia)

Registration

Dateline: 6 July 2018

REVISED FEES WITH 0% GST

Fees

Student RM 425.00
Staff RM 472.00

Seat Limit

15 participants

Contacts

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This hands-on course is organised by the Institute for Research in Molecular Medicine (iNFORMM), Universiti Sains Malaysia with our proud partners and sponsors

Course Program: Real-Time PCR (Gene Expression & Genotyping)

Day 1	11 July 2018
0830 - 0900	Registration for Participants
0900 - 1030	Seminar 1 : Introduction to Real-Time PCR Machine (Dr. Noor Fatmawati Mokhtar, INFORMM)
1030 - 11.00	Tea Break
1100 - 12.00	Seminar 2 : Gene Expression with Real-Time PCR (Associate Professor Dr. Venugopal Balakrishanan, INFORMM)
1200 - 0100	Seminar 3 : Diagnostic with Real-Time PCR (Associate Professor Dr. Venugopal Balakrishanan, INFORMM)
0100 - 0230	Lunch Break
0230 - 0330	Hands – On 1 : RNA Extraction
0330 - 0430	Hands – On 2 : cDNA Sythesis
1430 - 0500	Tea Break & Refections (End of Day 1)
Day 2	12 July 2018
0830 - 0930	Seminar 4 : Genotyping with Real-Time PCR (Ms. Tan Yan Yin – NeoScience Sdn Bhd, Malaysia)
0930 - 1030	Hands – On 3 : Real-Time PCR Set-Up for Efficiency and Target Gene
1030 - 1100	Tea Break
1100 - 1200	Hands – On 4 : Real-Time PCR Set-Up for Genotyping
1200 - 0100	Seminar 5 : Multiplexing (Ms. Tan Yan Yin – NeoScience Sdn Bhd, Malaysia)
0100 - 0230	Lunch Break
0230 - 0430	Hands – On 5 : Real-Time PCR Data Analysis (Ms. Tan Yan Yin – NeoScience Sdn Bhd, Malaysia)
0430 - 0500	Tea Break & Reflections (End of Day 2)

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